

CTR Presentation, 12/11/80

WJ Garland

Exposure of mice to fresh, unburnt smoke / microbiological assays

To be completed 1981 - no further studies contemplated

2 expts completed -

2/31 ref cig - (to use)

1 - no effect on incidence of lung tumors in susceptible mice

2 - Comb. \bar{c} genes didn't change incidence / age of onset

2 Comb. \bar{c} BAPx hi tar, hi nic cig

3 - Exposure to hi & lo nic cigs - To be completed June '81

DNA Damage in Lung

Exp. to smoke did result in more lung cells, reduced DNA repair (reduced DNA synthesis)

Epidemiology

Kaiser - Permanent - Effects of smoking & quitting

Swedish twins - Lower ca incidence for lung & other sites for twins than gen. pop.

Angina -

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Liver

Cardiovascular disease

Ford - Breeding & fetal development

Stone - Nicotine in large doses can ^{alter hormones} interfere & various aspects of fetal development; but in smaller doses effects also minimal

Another investigator finds nic

Proposed program -

Evaluate effects of nic & smoke as well as other agents like alcohol

Multidisciplinary

Examine effects on successive generations

Budget should be reviewed in prep. for action at Annual Mtg on Jan 30.

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Research Review Committee

1 - Cotinine study (Spear)

Awaiting OK for Phase 1

Determine if cotinine in air

If nicotine present in suff. concentrations

Urgently looking for group to do the work

2 - Riley proposal

3 - Passive dosimeters. Are they appropriate devices
for measuring smoke exposure.

4 - Formaldehyde problem.

See research proposal from Sankar to Spear -

Indicate whether PIR willing investigate.

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